

TDC7X SERIES

7.5 Watt 1500VDC & 3000VDC Isolation

DC-DC CONVERTER

4:1 Wide Range Input

FEATURES

- PCB Mountable
- High Stable Regulated Output
- Thermally Conductive Encapsulant
- 100% Burn-In and Triple Tested
- MTBF > 400,000 Hours

APPLICATIONS

- Local Area Network
- Isolation Devices
- Telecommunications
- Industrial and Testing Equipment
- Battery-Powered Equipment
- Medical Equipment
- Distributed Power Equipment



ELECTRICAL SPECIFICATIONS

Input Voltage Range	4:1
Output Voltage Accuracy	±2%
Load Regulation	±0.5%
Line Regulation	±0.5%
Ripple & Noise	100mV p-p for 5V, 1% for other voltages
Short Circuit Protection	Fold back

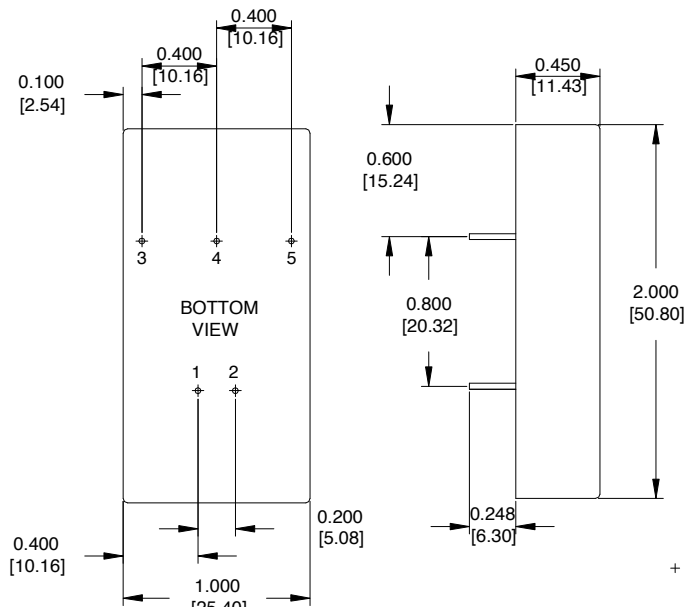
GENERAL SPECIFICATIONS

Efficiency (At Full Load)	77 to 81% typical
Isolation Voltage	1500VDC and 3000VDC
Operating Frequency	100KHz min.
Operating Temperature	0°C to 70°C Based Temperature
Storage Temperature	-40°C to +100°C
Isolation Resistance	10 ⁹ Ohms, min.
Weight	1.5 Oz. (42 grams)
Case Material	Black coated with non-conductive metal base

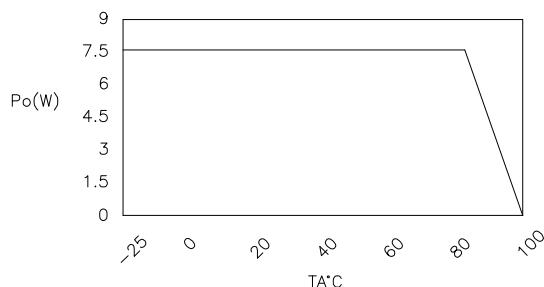
TDC7X SERIES SPECIFICATIONS

Model-Type	Input Voltage (Vdc)	Input Current mA (typ)		Output Voltage (Vdc)	Output Current mA (max)
		No Load	Full Load		
TDC7X-2405S	9-36 (24)	60	895	5	2000
TDC7X-2412S		60	895	12	830
TDC7X-2415S		60	895	15	670
TDC7X-2405D		60	895	±5	±1000
TDC7X-2412D		60	800	±12	±416
TDC7X-2415D		60	835	±15	±333
TDC7X-4805S	20-72 (48)	50	435	5	2000
TDC7X-4812S		50	430	12	830
TDC7X-4815S		50	430	15	670
TDC7X-4805D		50	430	±5	±1000
TDC7X-4812D		50	395	±12	±416
TDC7X-4815D		50	415	±15	±333

S: Single Output D: Dual Output (3000V Isolation add -3K at end of P/N)



Power Derating Curve



Pin Connections

Pin	Single	Dual
1	+ Input	+ Input
2	- Input	- Input
3	+ Output	+ Output
4	No Pin	Common
5	- Output	- Output

